

### CLAIMS

5 The embodiments of the invention in which an exclusive property or  
privilege is claimed are defined as follows:

1. An illuminated glass deck light panel, comprising:

(a) a plurality of load-bearing glass pavers, structural plank glass  
elements, or other structural lenses;

10 (b) a longitudinally extending support pan for embedding in a supporting  
substrate;

(c) said plurality of load-bearing glass pavers, structural plank glass  
elements, or other structural lenses resting on ledges formed in said support pan;

15 (d) a sealing material disposed between said load-bearing glass pavers,  
structural plank glass elements, or other structural lenses and said support pan;

(e) a plurality of illumination sources disposed in said support pan  
underneath said plurality of load-bearing glass pavers, structural plank glass  
elements, or other structural lenses; and

20 (f) said plurality of illumination sources being at all times illuminated  
whenever one of said plurality of illumination sources is illuminated.

2. An illuminated glass deck light panel, as defined in Claim 1,  
wherein: interior of said support pan defined between inner surfaces of said  
support pan and inner surfaces of said plurality of load-bearing glass pavers,  
25 structural plank glass elements or other structural lenses is sealed.

3. An illuminated glass deck light panel, as defined in Claim 1, a  
support frame disposed between and sealed to said plurality of load-bearing  
glass pavers, structural plank glass elements, or other structural lenses and said  
30 support pan.

4. An illuminated glass deck light panel, as defined in Claim 1,  
wherein: said illuminated glass deck light panel is continuous and non-linear.

5 5. An illuminated glass deck light panel, as defined in Claim 1,  
wherein: said illuminated glass deck light panel is non-continuous and non-linear.

10 6. An illuminated glass deck light panel, as defined in Claim 1,  
wherein: said illuminated glass deck light panel has arcuate elements.

7. An illuminated glass deck light panel, as defined in Claim 1,  
wherein: a reflective surface is disposed at a bottom of said support pan.

15 8. An illuminated glass deck light panel, as defined in Claim 1,  
wherein: a bottom surface of said load-bearing glass pavers, structural plank  
glass elements, or other structural lenses is sandblasted or is formed of prismatic  
glass.

20 9. An illuminated glass deck light panel, as defined in Claim 1, further  
comprising: a second plurality of load-bearing glass pavers, structural plank  
glass elements, or other structural lenses is disposed on top of said plurality of  
load-bearing glass pavers, structural plank glass elements, or other structural  
lenses.

25 10. An illuminated glass deck light panel, as defined in Claim 9, further  
comprising: a suitable laminate disposed between said plurality and said second  
plurality.

11. An illuminated glass deck light panel, as defined in Claim 1,  
wherein: sides of said support pan are sloped such that said support pan is wider  
at a top thereof than at a bottom thereof.

5           12. An illuminated glass deck light panel, as defined in Claim 11,  
wherein: one or both sides of said support pan have a reflective material  
disposed thereon.

10           13. A method of installing an illuminated glass deck light panel,  
comprising:

(a) embedding a longitudinally extending support pan in a supporting  
substrate;

15           (b) placing a plurality of illumination sources in a bottom of said  
support pan, said plurality of illumination sources being at all times illuminated  
whenever one of said illumination sources is illuminated;

(c) placing a sealing material on ledges formed on said support pan; and

(d) placing a plurality of load-bearing glass pavers, structural plank glass  
elements, or other structural lenses on said ledges.

20           14. A method of installing an illuminated glass deck light panel, as  
defined in Claim 13, further comprising: forming a sealed chamber defined  
between inner surfaces of said support pan and inner surfaces of said plurality of  
load-bearing glass pavers, structural plank glass elements, or other structural  
lenses.

25           15. A method of installing an illuminated glass deck light panel, as  
defined in Claim 13, further comprising: placing a support frame between and  
sealing to said plurality of load-bearing glass pavers, structural plank glass  
elements, or other structural lenses and said support pan.

16. A method of installing an illuminated glass deck light panel, as defined in Claim 13, further comprising: prior to step (b) or step (c), installing temporary infill blocks in said support pan to provide a smooth surface for other construction activities; and removing said infill blocks before step (d).

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17. A method of installing an illuminated glass deck light panel, as defined in Claim 16, wherein: said infill blocks are Styrofoam blocks.

18. An illuminated glass deck light panel, comprising:

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(a) a plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses;

(b) a longitudinally extending support pan for embedding in a supporting substrate;

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(c) said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses resting on ledges formed in said support pan;

(d) a sealing material disposed between said glass pavers, structural plank glass elements, or other structural lenses and said support pan; and

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(e) a reflective material disposed in support pan underneath said plurality of load-bearing glass pavers, arranged so as to reflect light from a light source disposed above said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses to give the appearance that said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses are illuminated from below.

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19. An illuminated glass deck light panel, as defined in Claim 18, wherein: a bottom surface of said load-bearing glass pavers, structural plank glass elements, or other structural lenses is sandblasted or is formed of prismatic glass.

20. An illuminated glass deck light panel, comprising:

(a) a plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses;

5 (b) a longitudinally extending support pan for embedding in a supporting substrate;

(c) said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses resting on ledges formed in said support pan;

(d) a sealing material disposed between said load-bearing glass pavers, structural plank glass elements, or other structural lenses and said support pan;

10 (e) a plurality of illumination sources disposed in said support pan underneath said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses; and

(f) said plurality of illumination sources being selected from the group consisting of: pulsed illumination sources, blinking illumination sources, and  
15 progressive illumination sources to direct persons in a certain direction.